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Anti-EIF3K Antibody

Rabbit polyclonal antibody to EIF3K
Catalog # AP60454

Product Information

Application	WB
Primary Accession	Q9UBQ5
Other Accession	Q9DBZ5
Reactivity	Human, Mouse, Rat, Rabbit, Monkey, Pig, Bovine, Dog, SARS
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25060

Additional Information

Gene ID	27335
Other Names	EIF3S12; Eukaryotic translation initiation factor 3 subunit K; eIF3k; Eukaryotic translation initiation factor 3 subunit 12; Muscle-specific gene M9 protein; PLAC-24; eIF-3 p25; eIF-3 p28
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human EIF3K. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

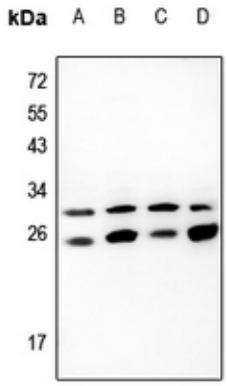
Name	EIF3K {ECO:0000255|HAMAP-Rule:MF_03010}
Function	Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl- tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation (PubMed:17581632). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell

	cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773).
Cellular Location	Nucleus {ECO:0000255|HAMAP-Rule:MF_03010, ECO:0000269|PubMed:15327989}. Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03010, ECO:0000269|PubMed:15327989}
Tissue Location	Ubiquitous, with the highest levels of expression in brain, testis and kidney.

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human EIF3K. The exact sequence is proprietary.

Images



Western blot analysis of EIF3K expression in MCF7 (A), C6 (B), mouse testis (C), HEK293T (D) whole cell lysates.